

FIG.1

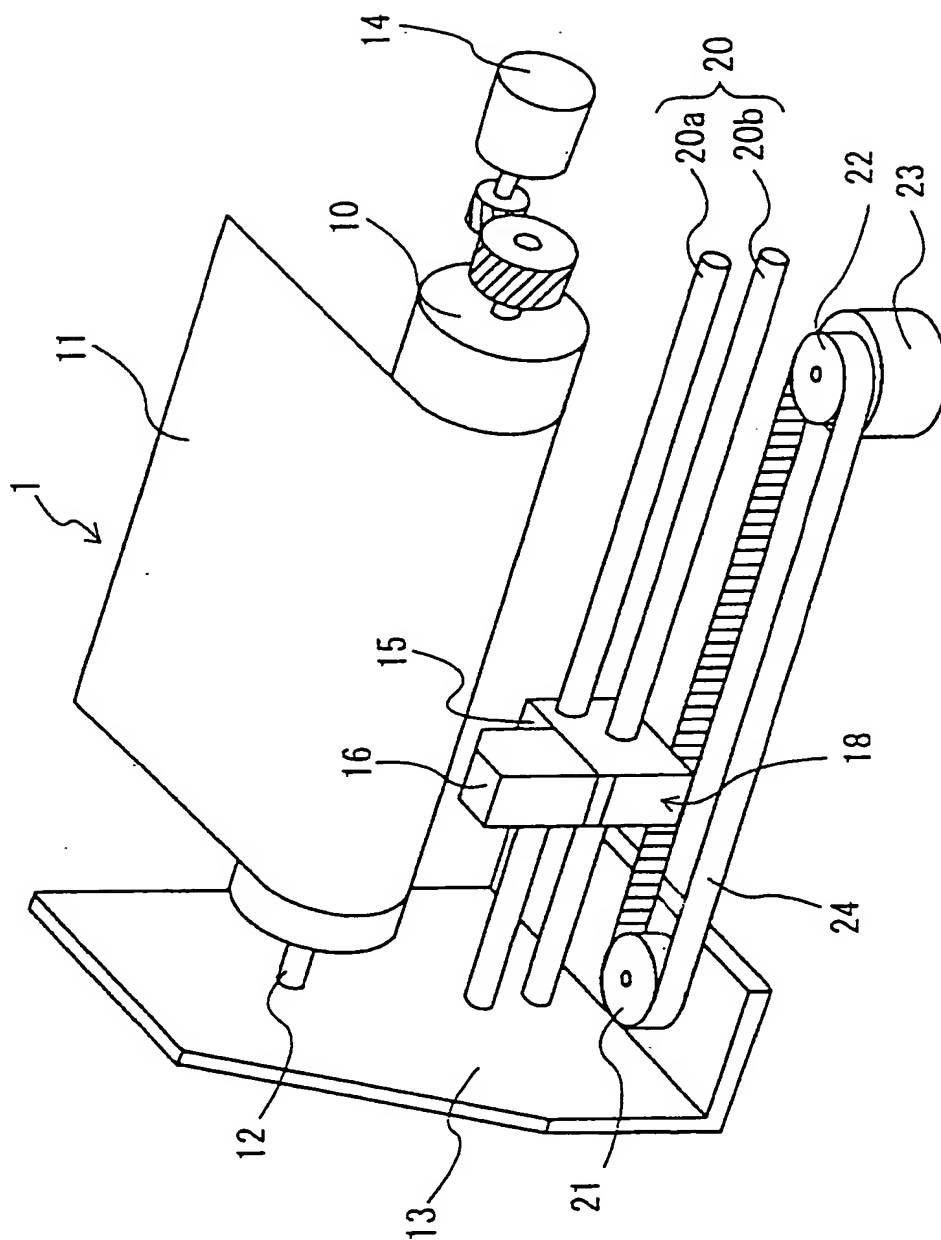


FIG. 2

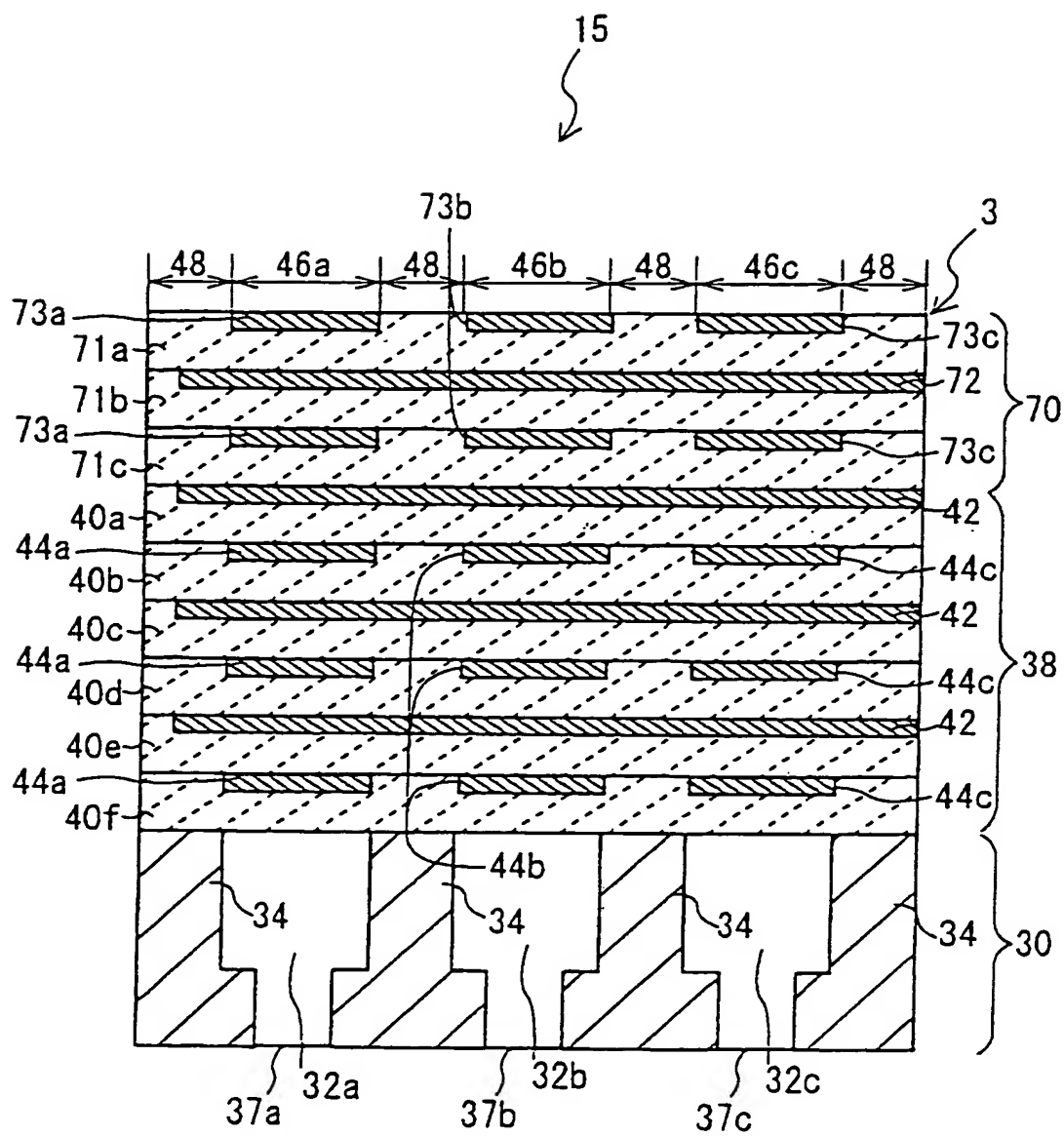


FIG.3

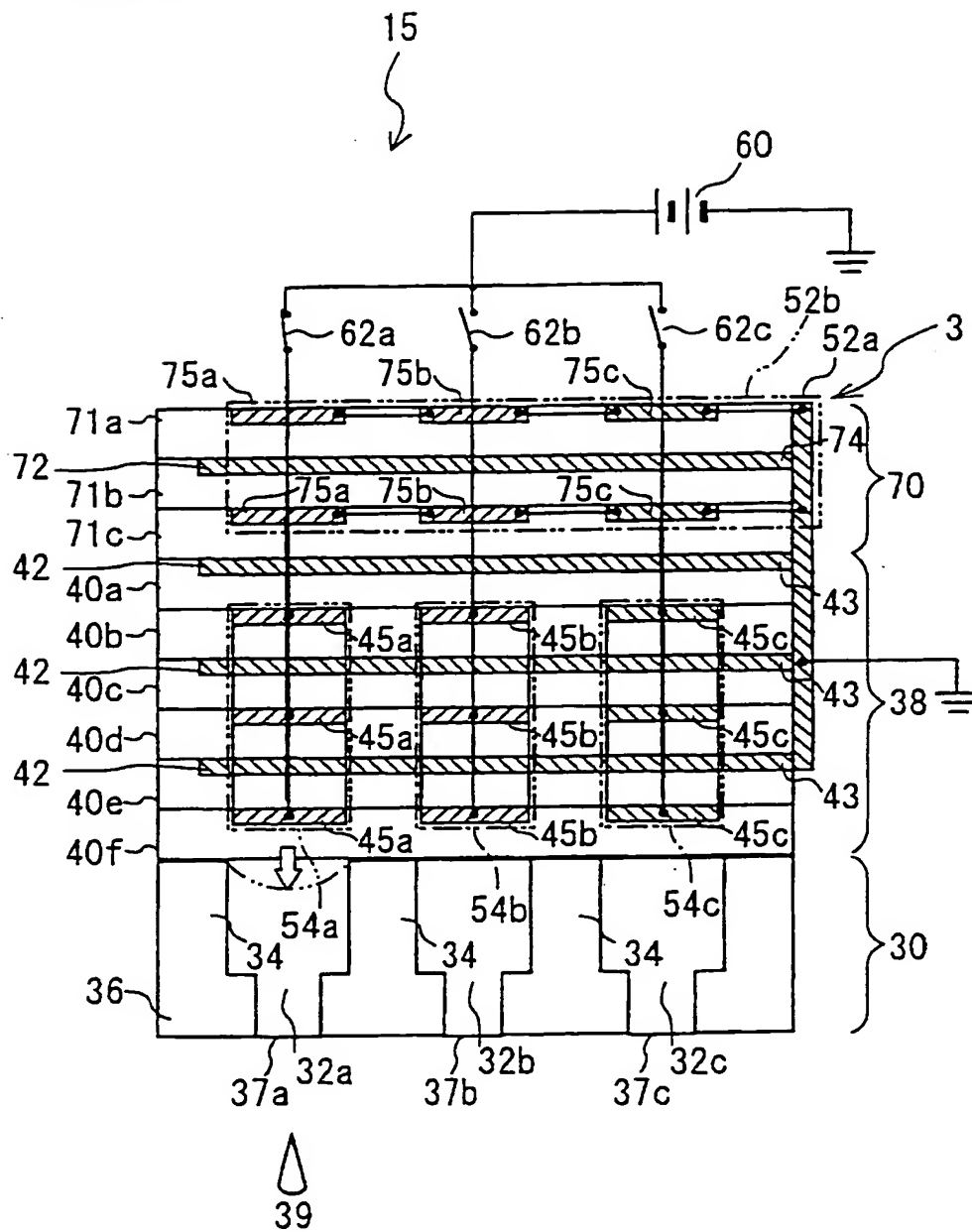
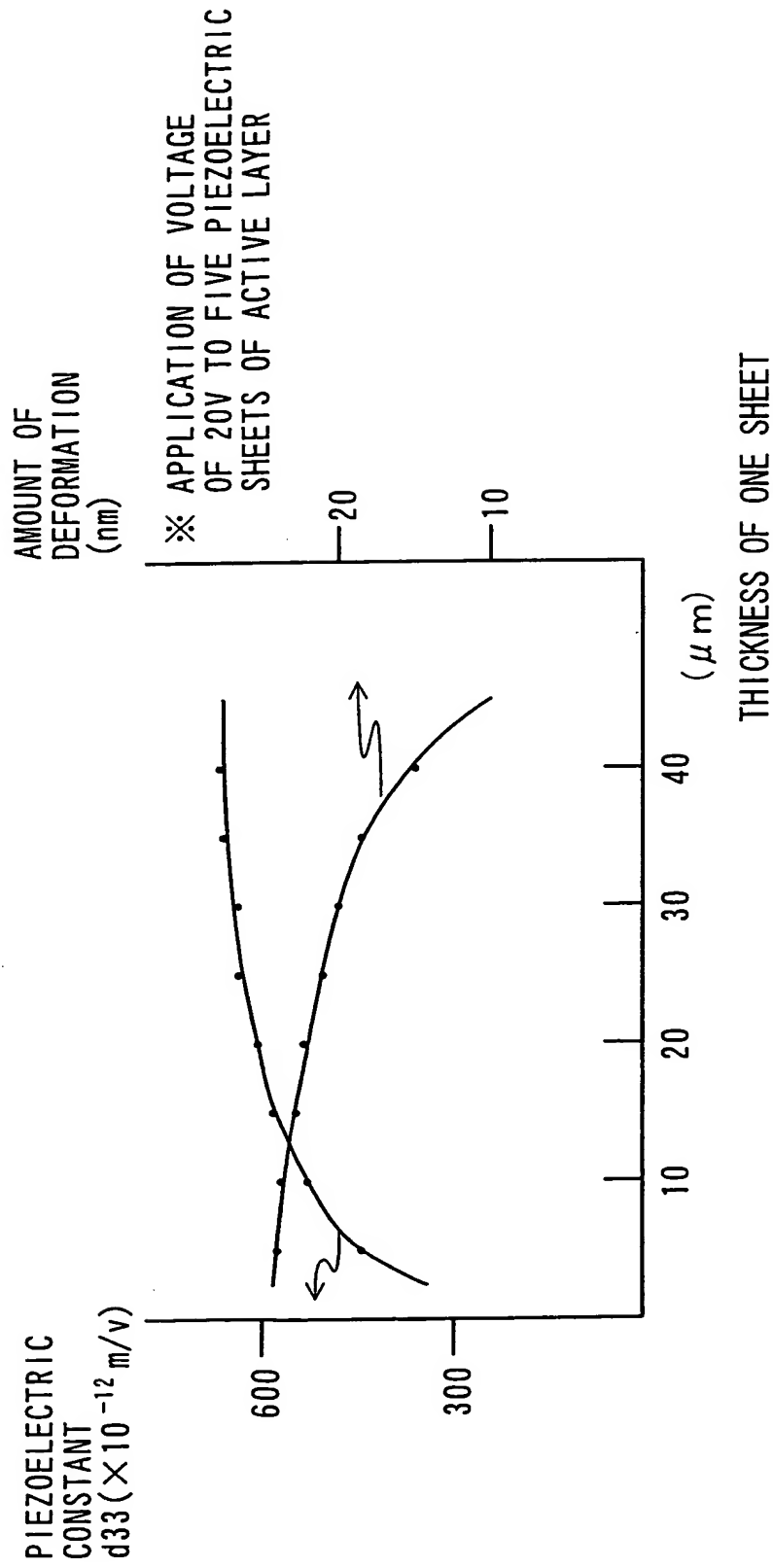
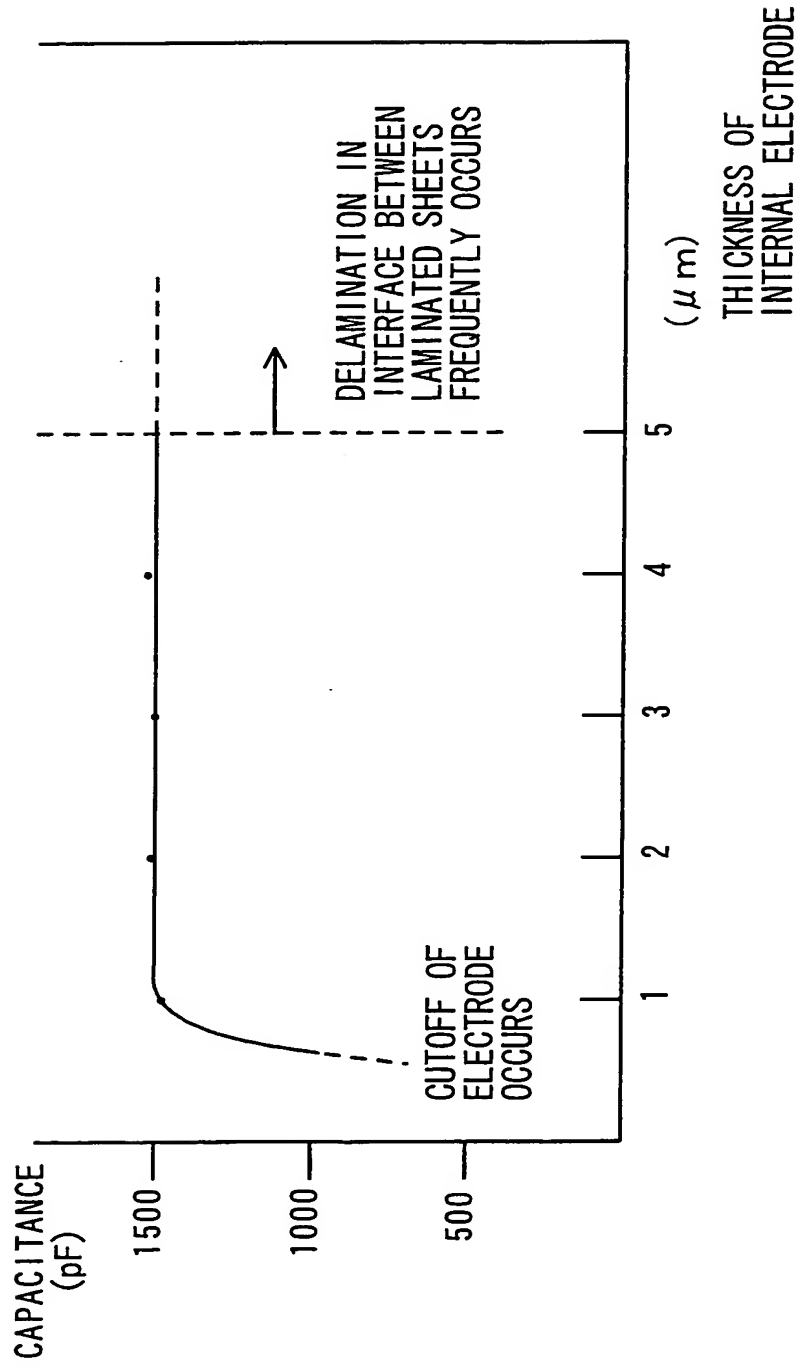


FIG.4



THICKNESS OF ONE PIEZOELECTRIC SHEET AND CHARACTERISTICS

FIG.5



THICKNESS OF INTERNAL ELECTRODE AND CAPACITANCE

FIG.6

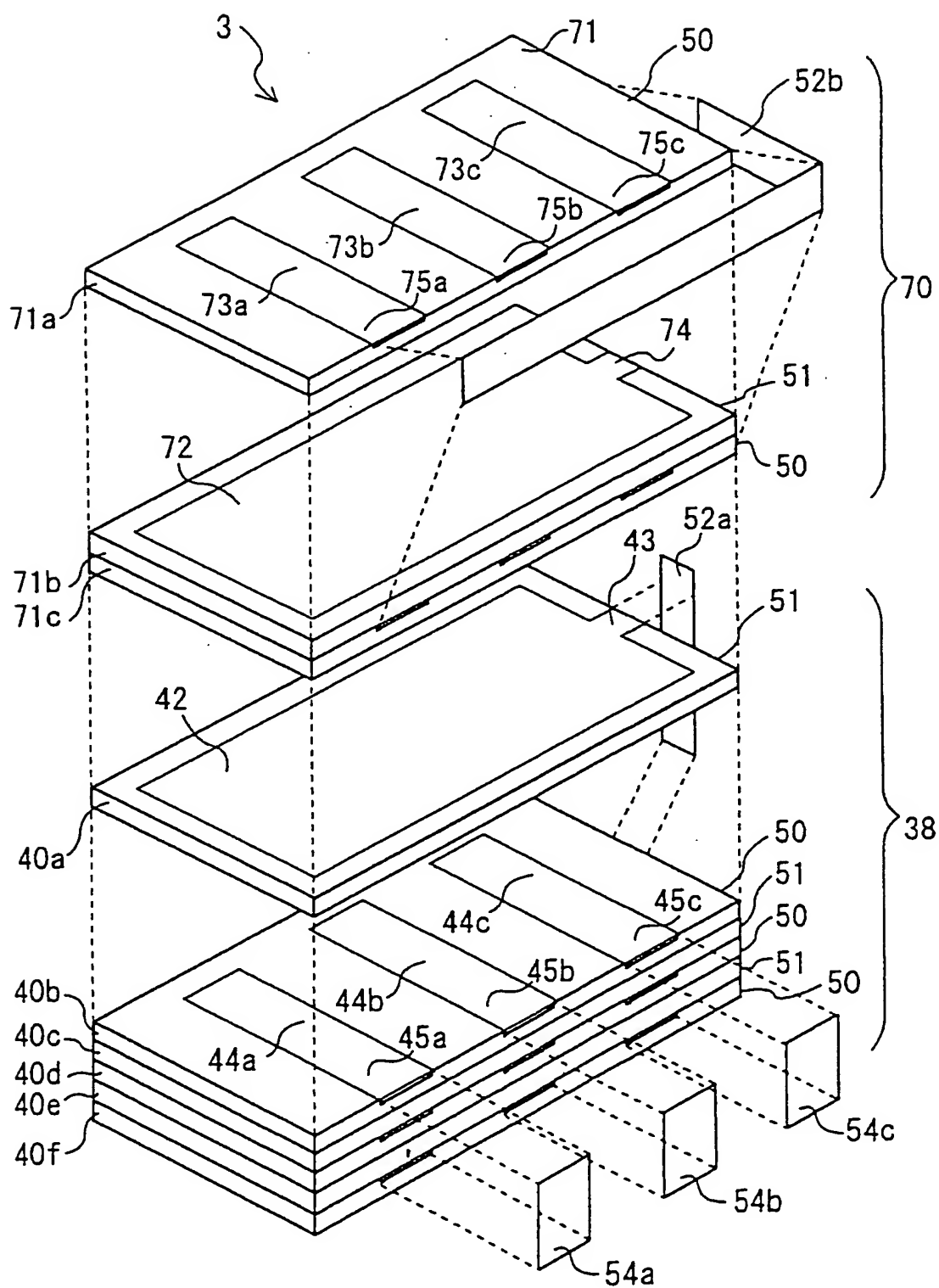


FIG. 7

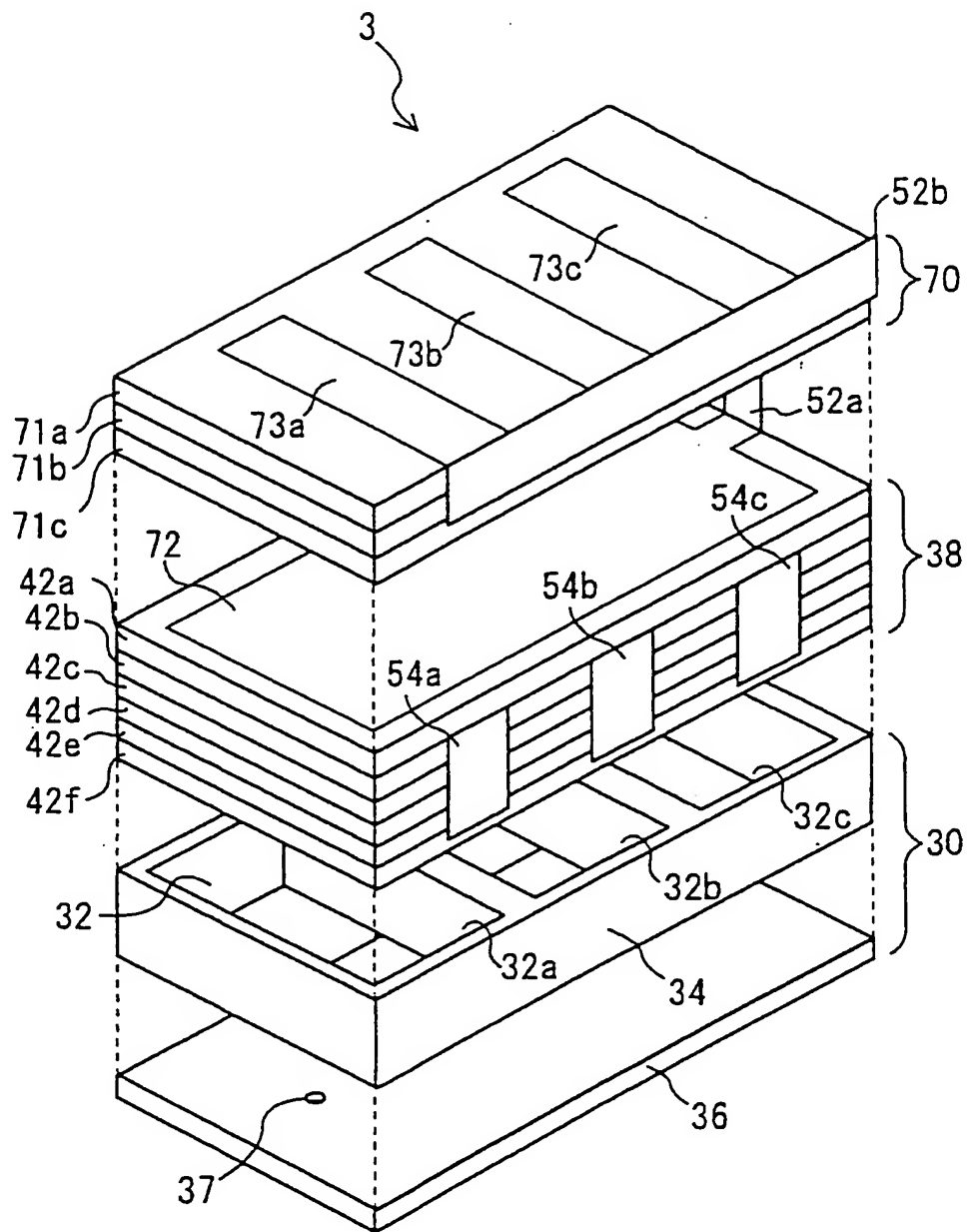


FIG. 8

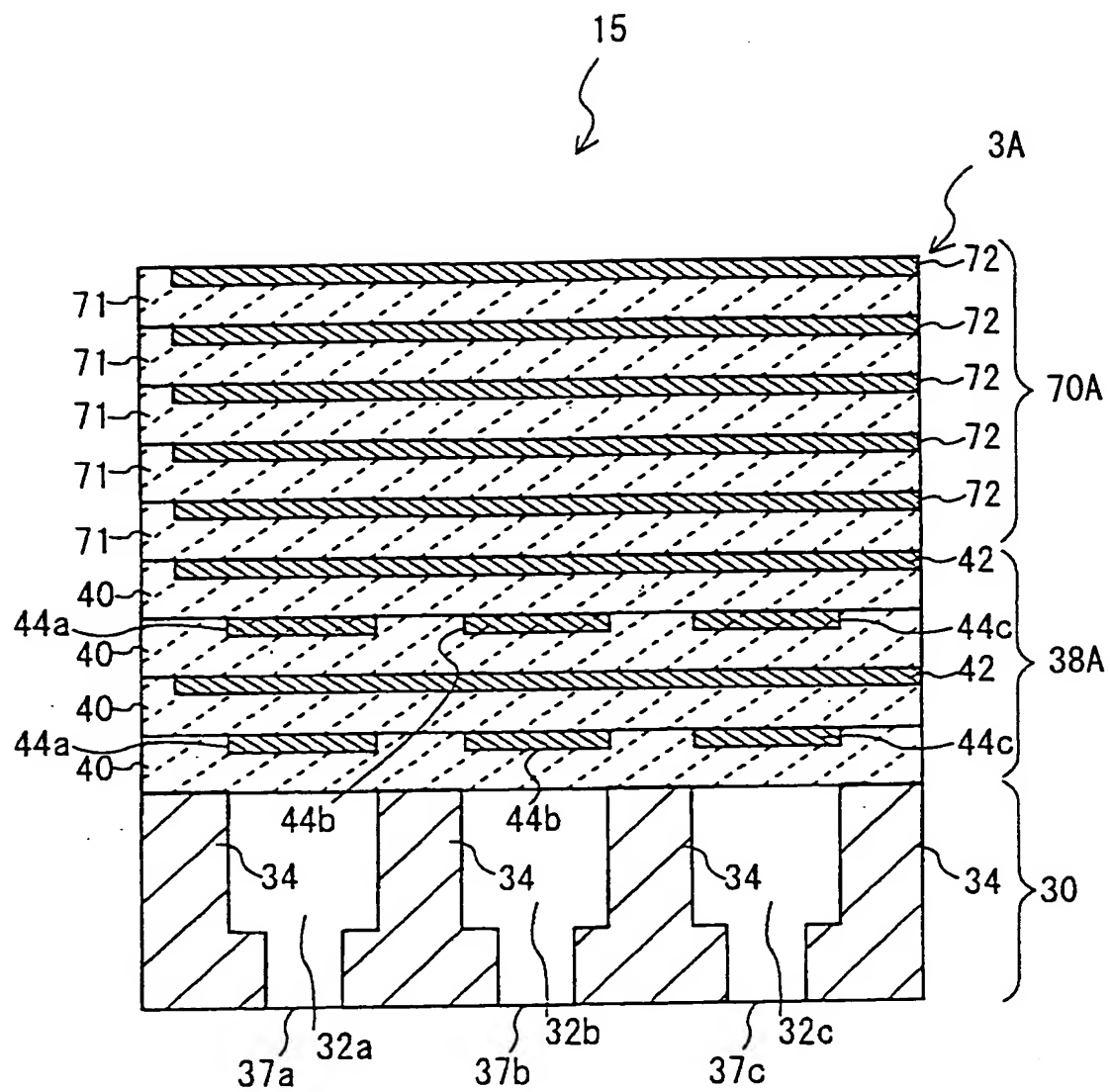




FIG. 9

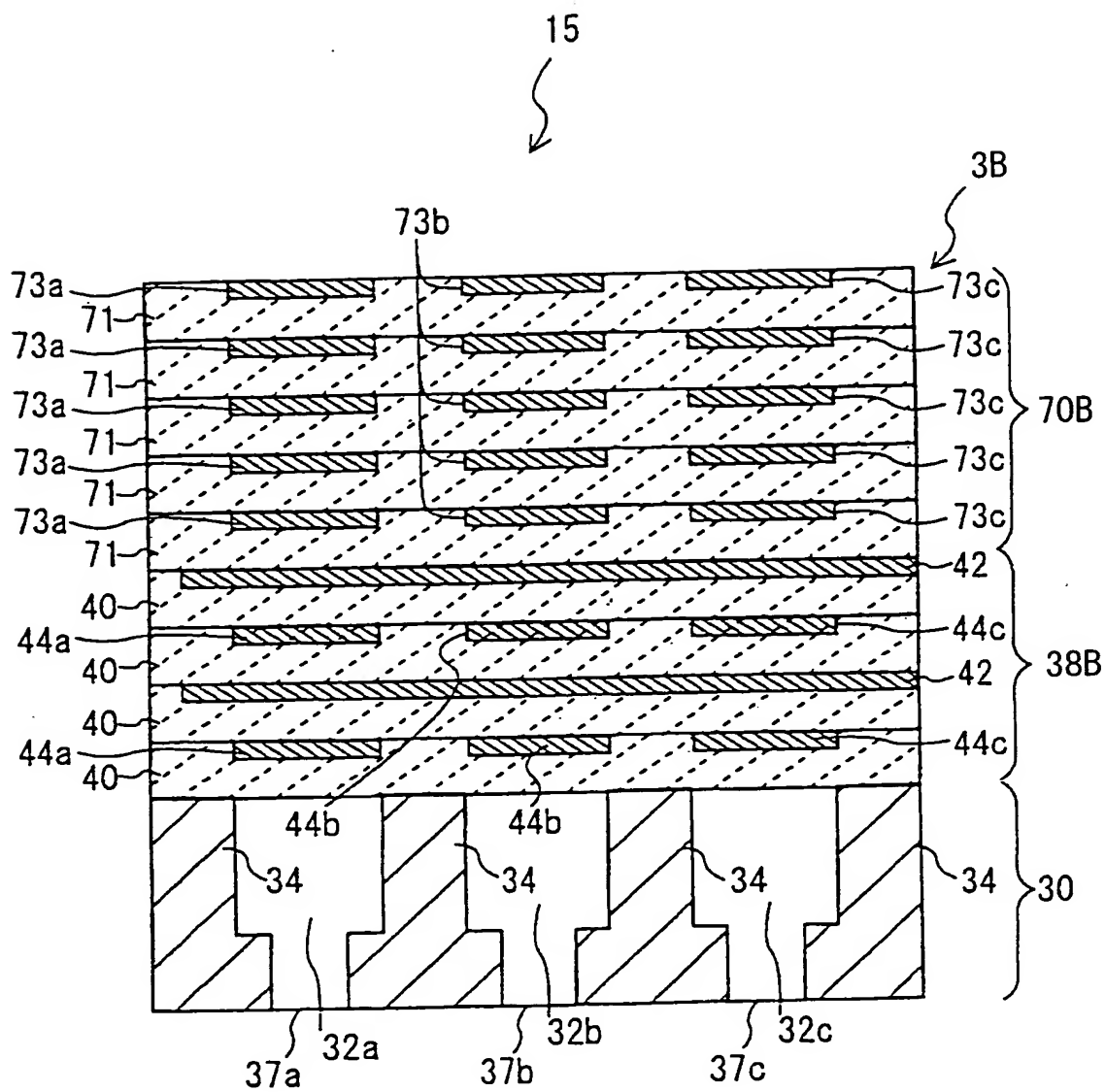


FIG.10

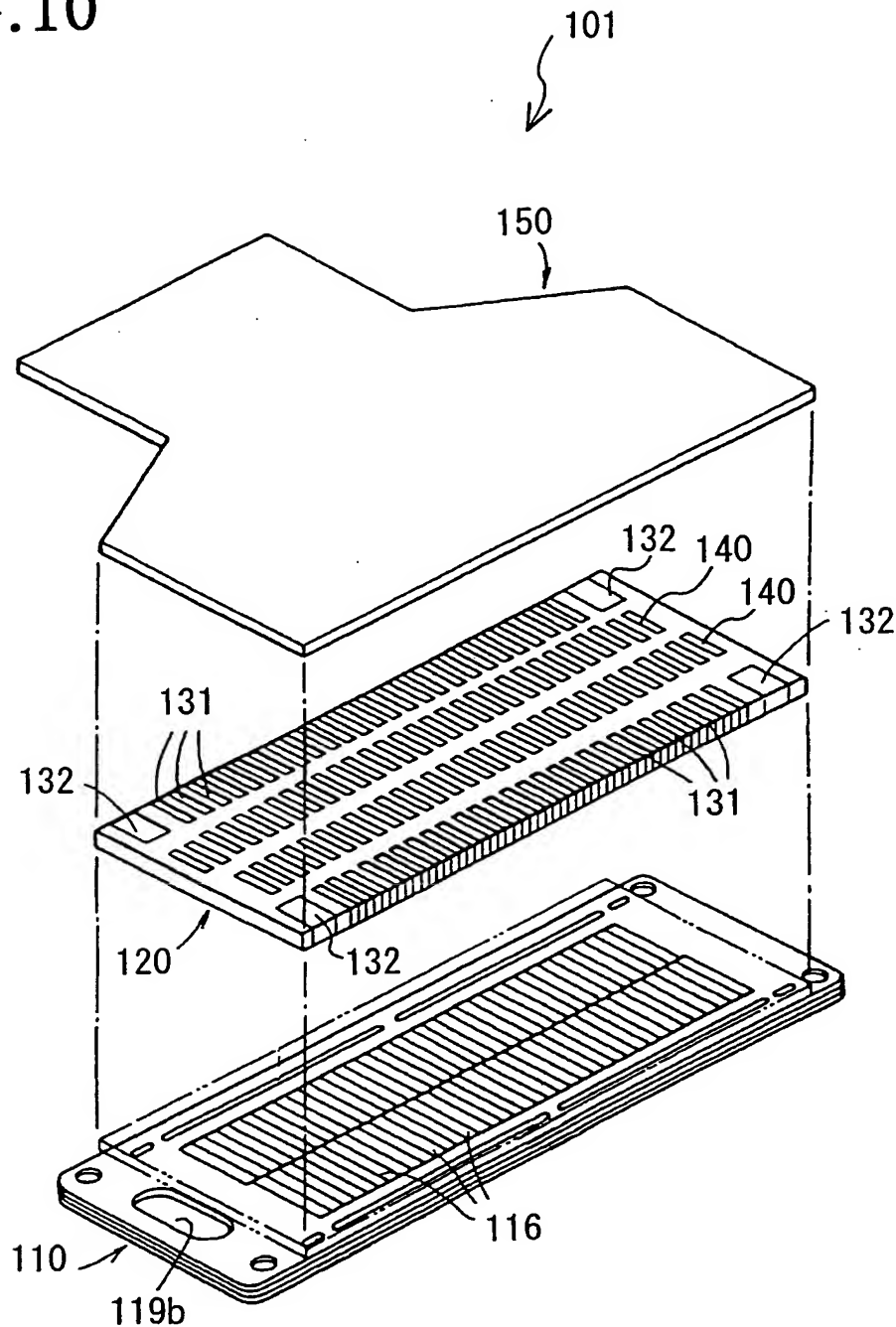


FIG. 11

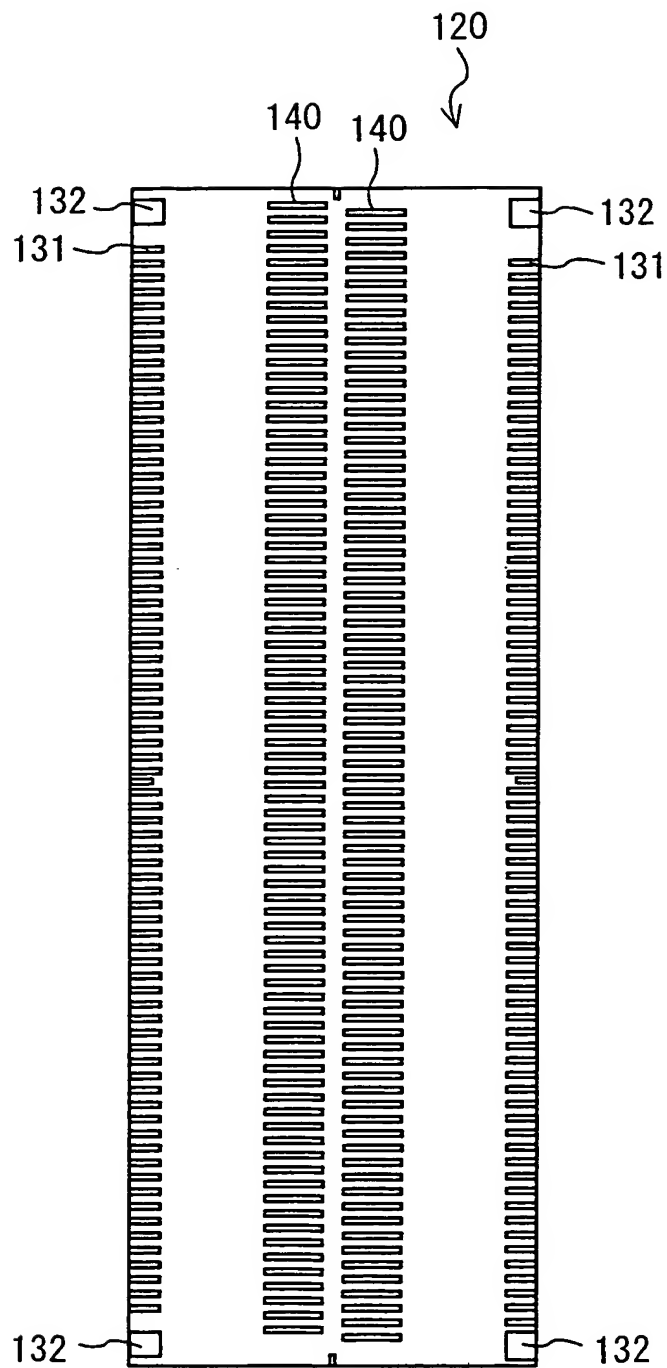


FIG.12

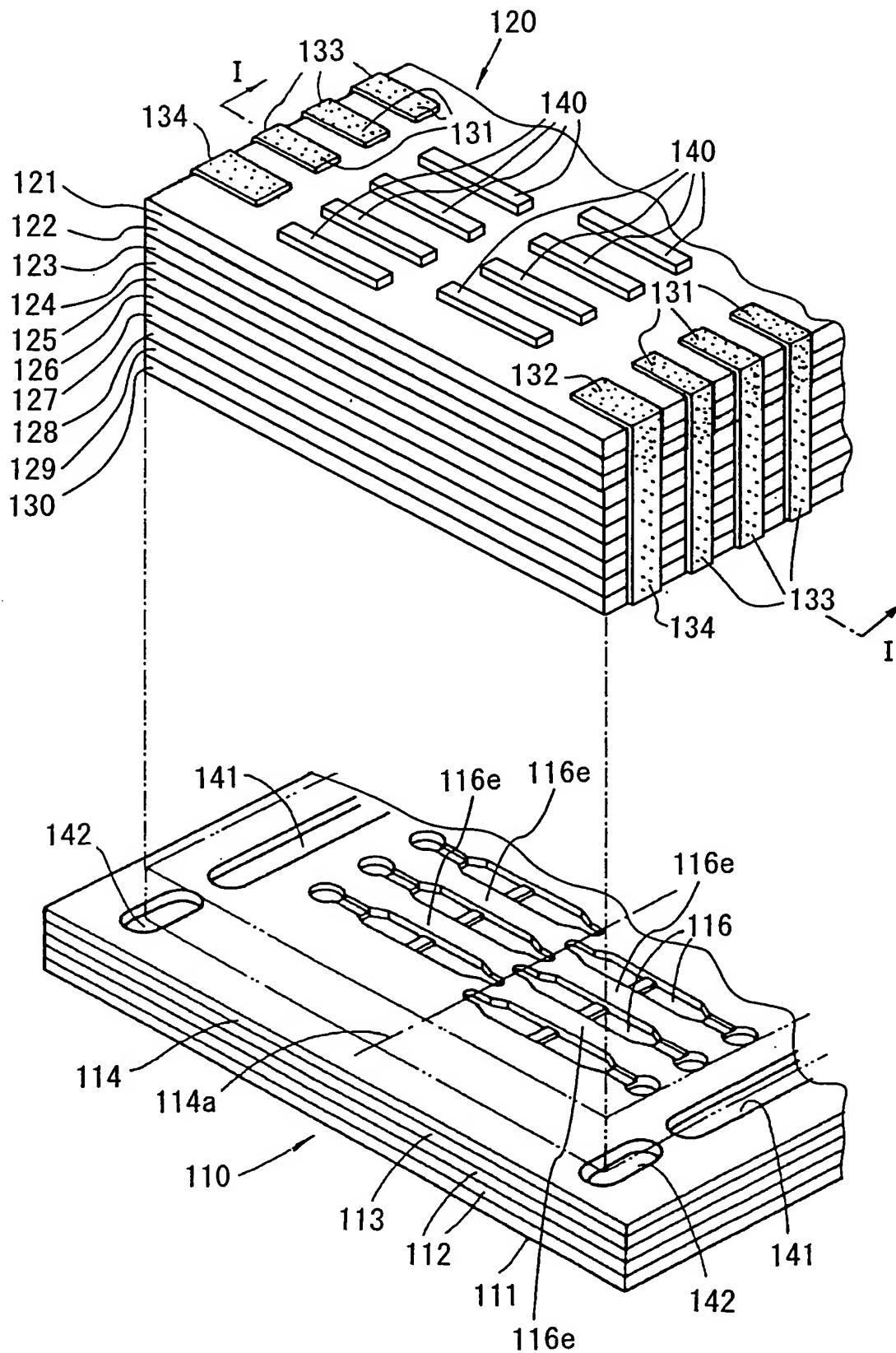


FIG.13

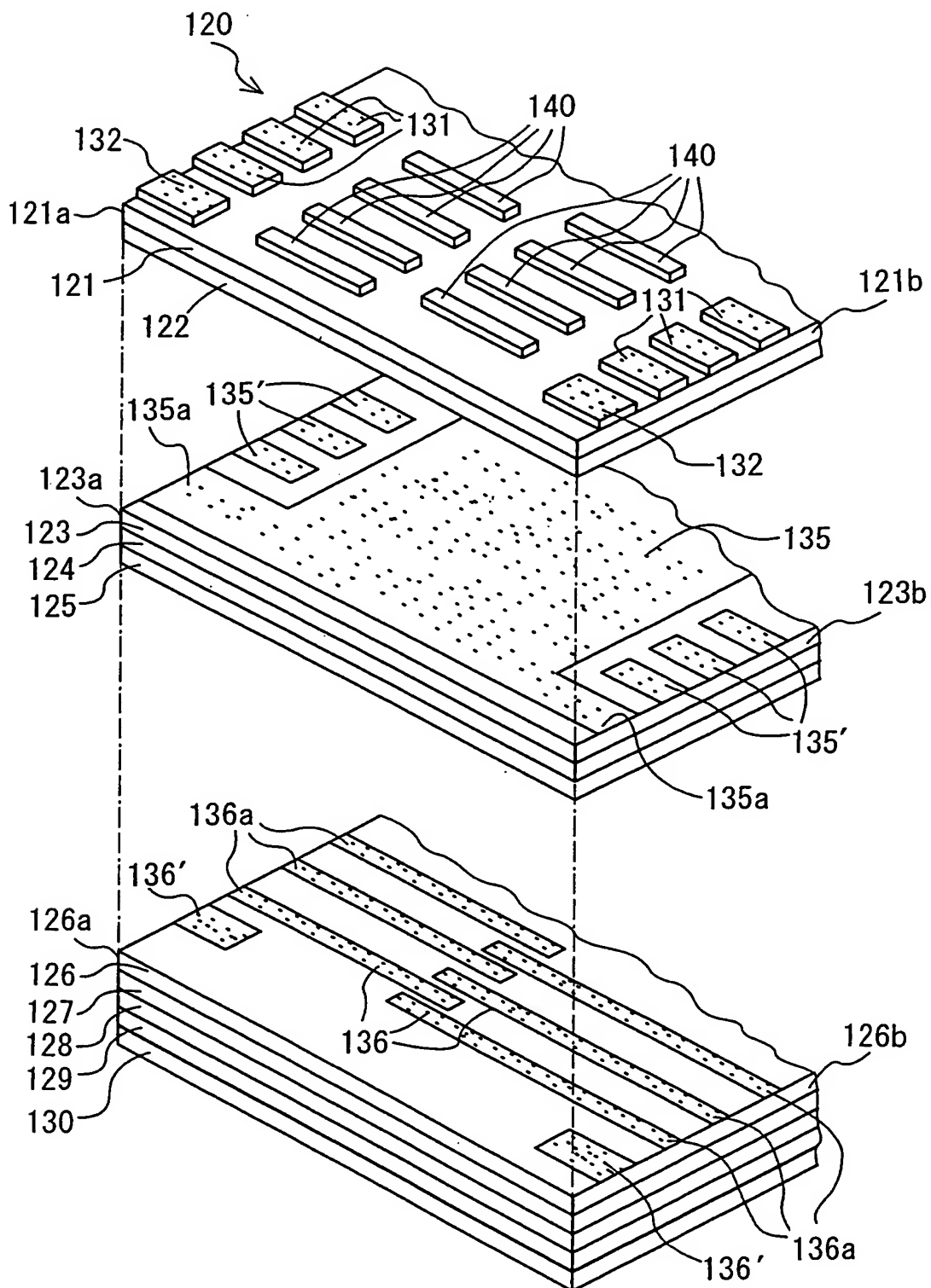


FIG. 14

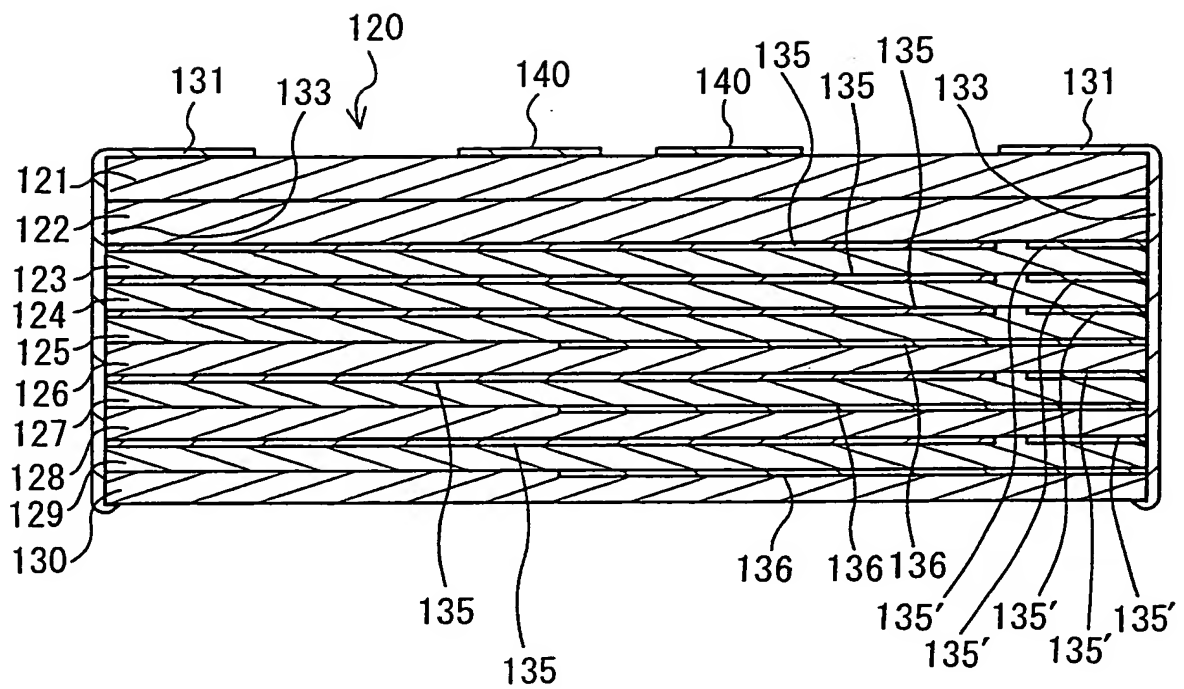


FIG.15

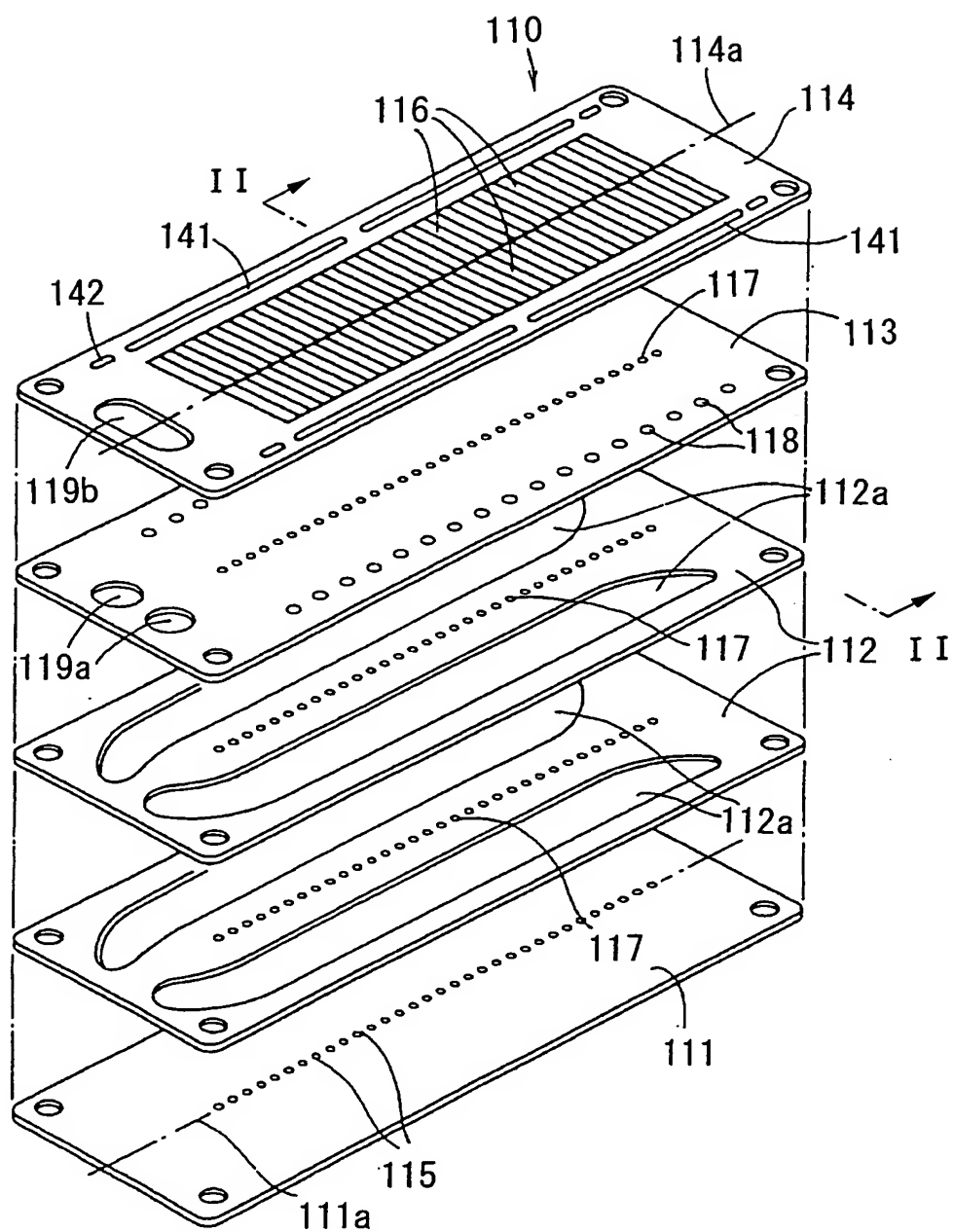


FIG. 16

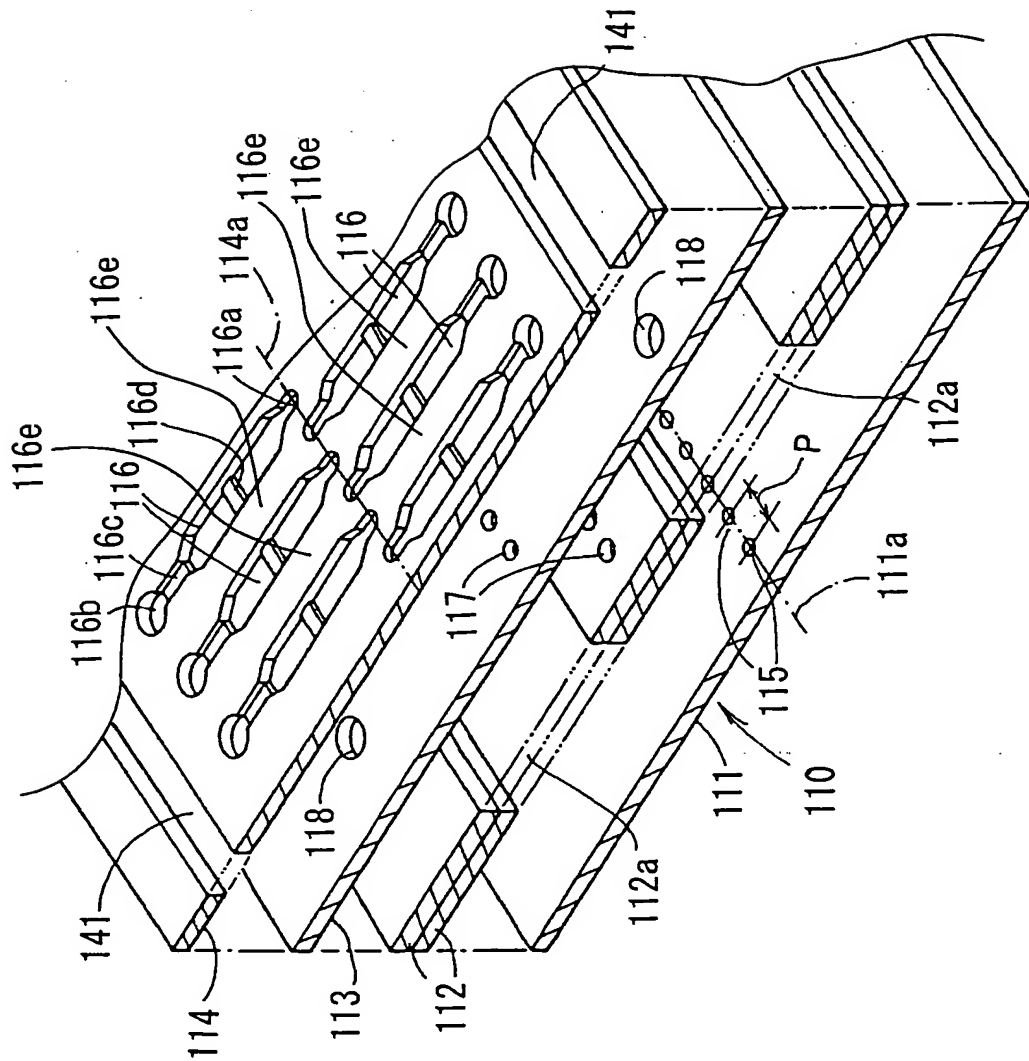




FIG.17

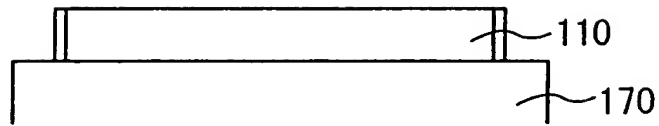


FIG.18

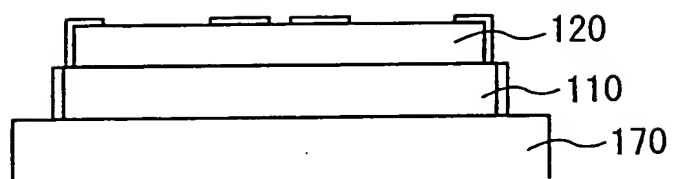


FIG.19

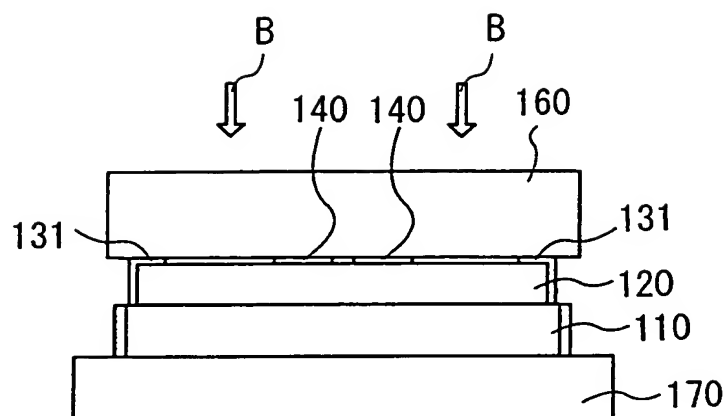


FIG. 20

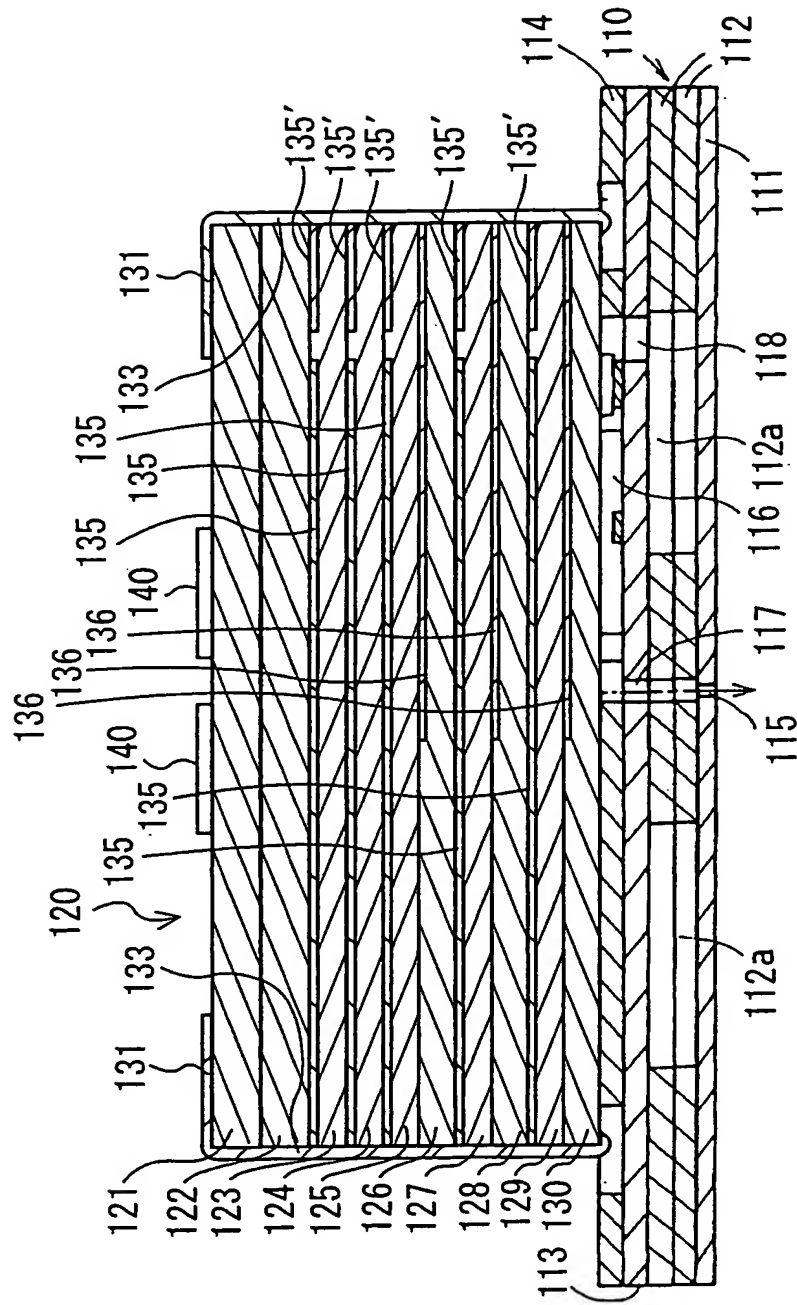


FIG.21

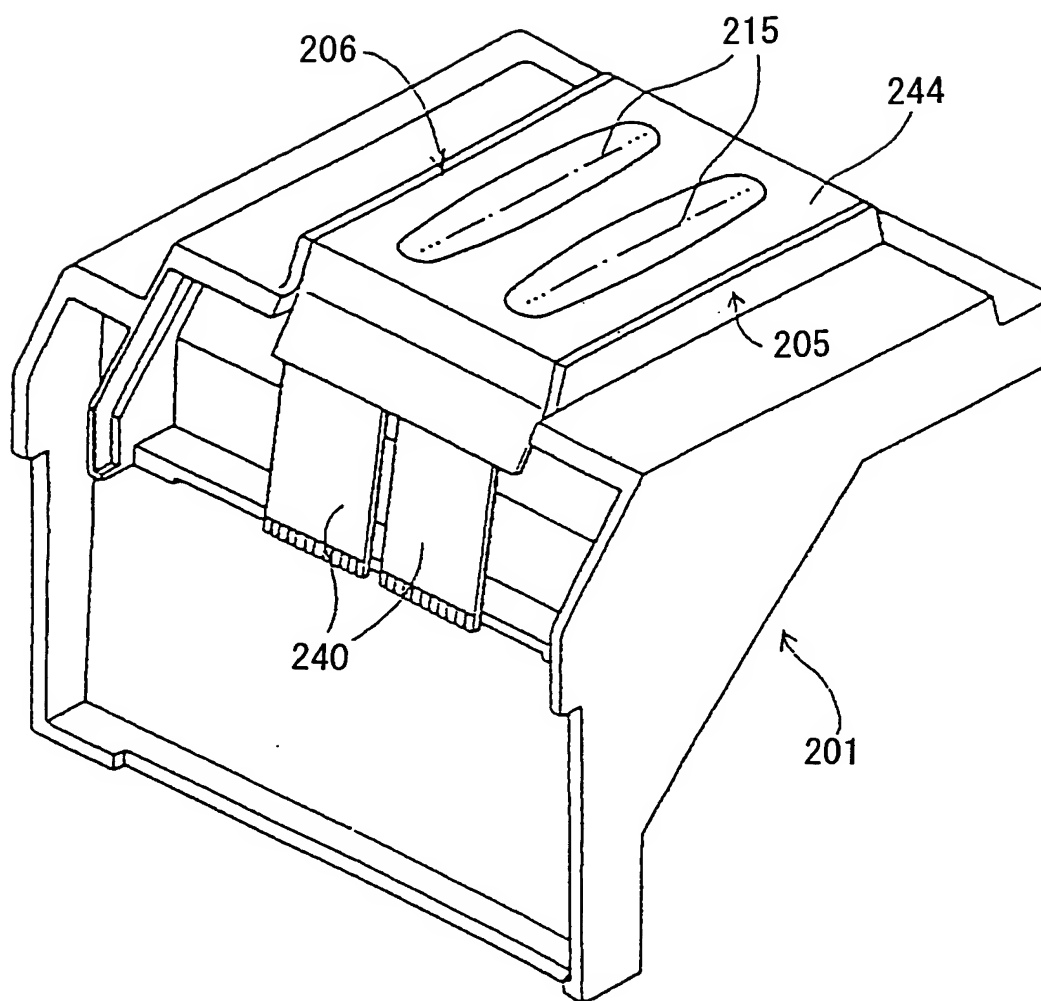


FIG.22

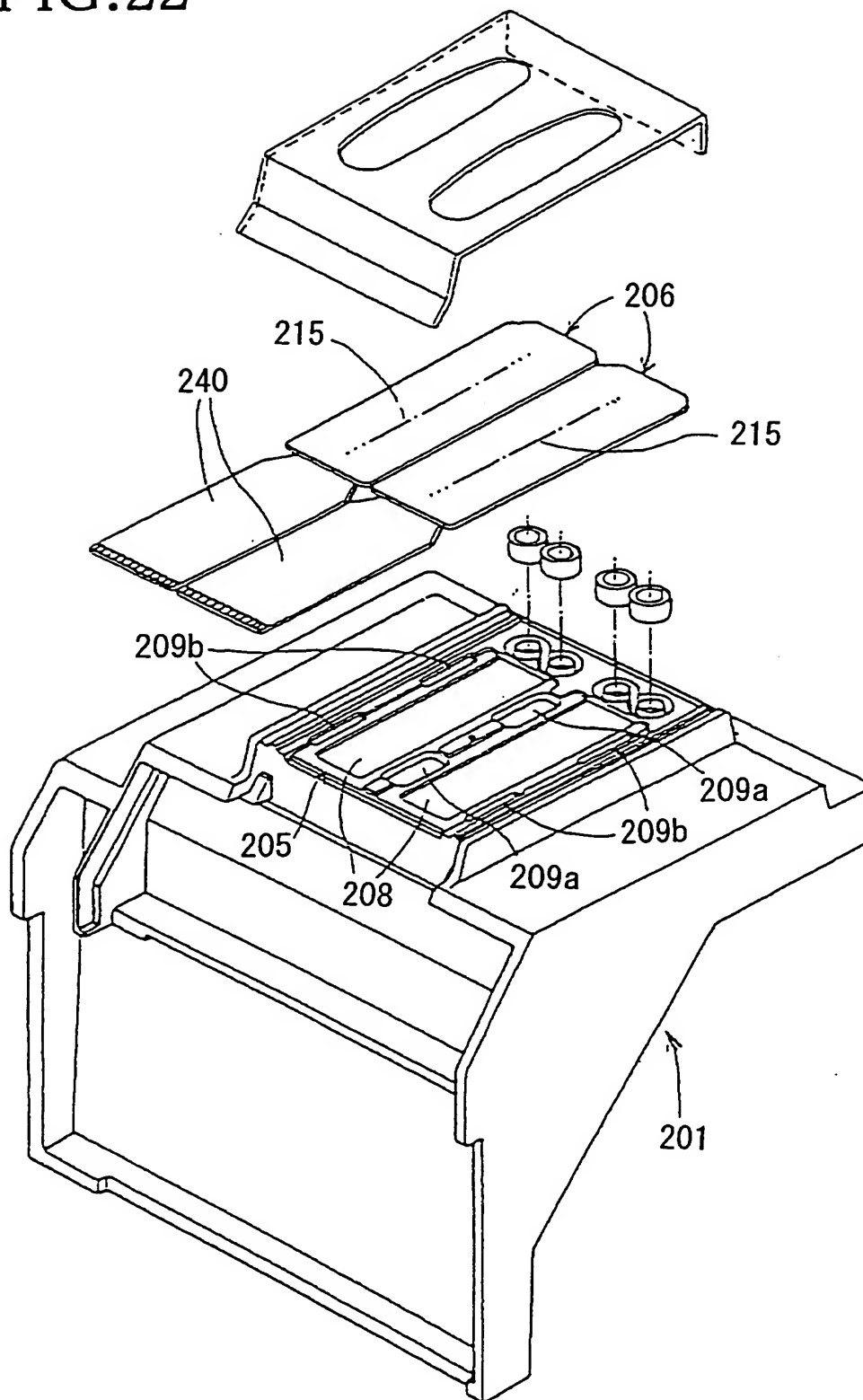


FIG. 23

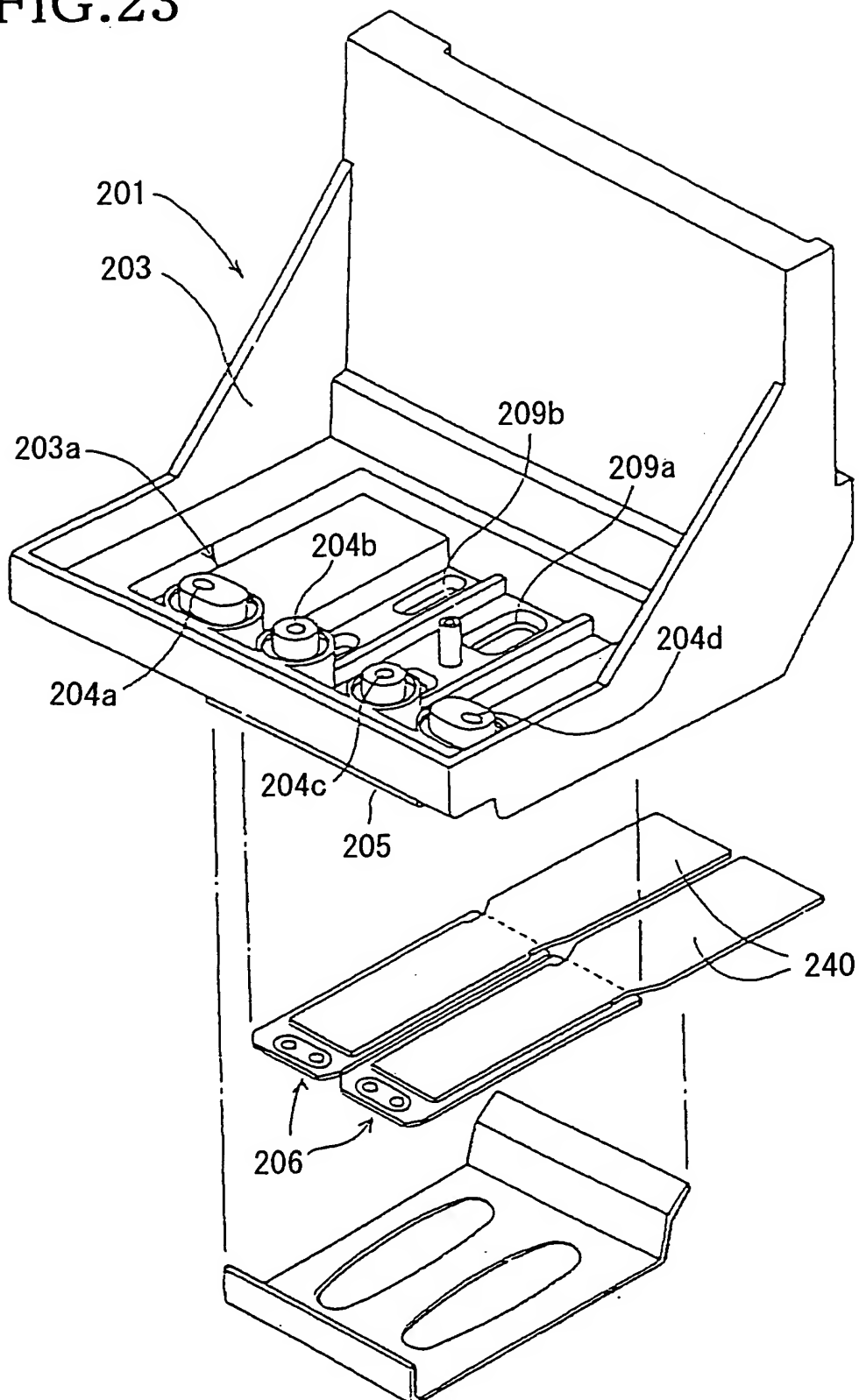


FIG.24

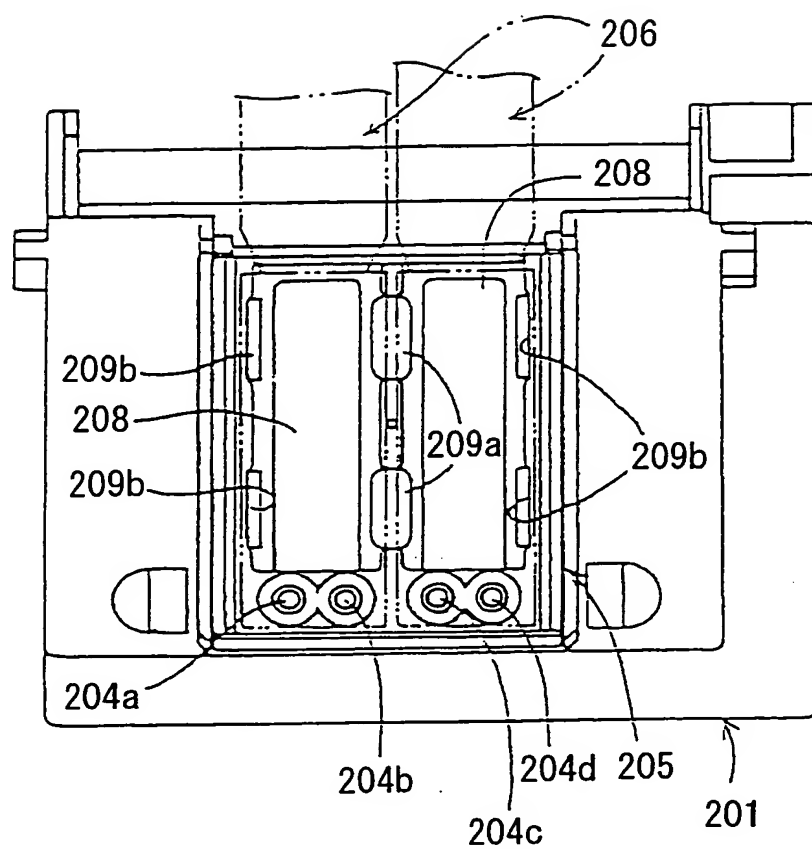




FIG.25

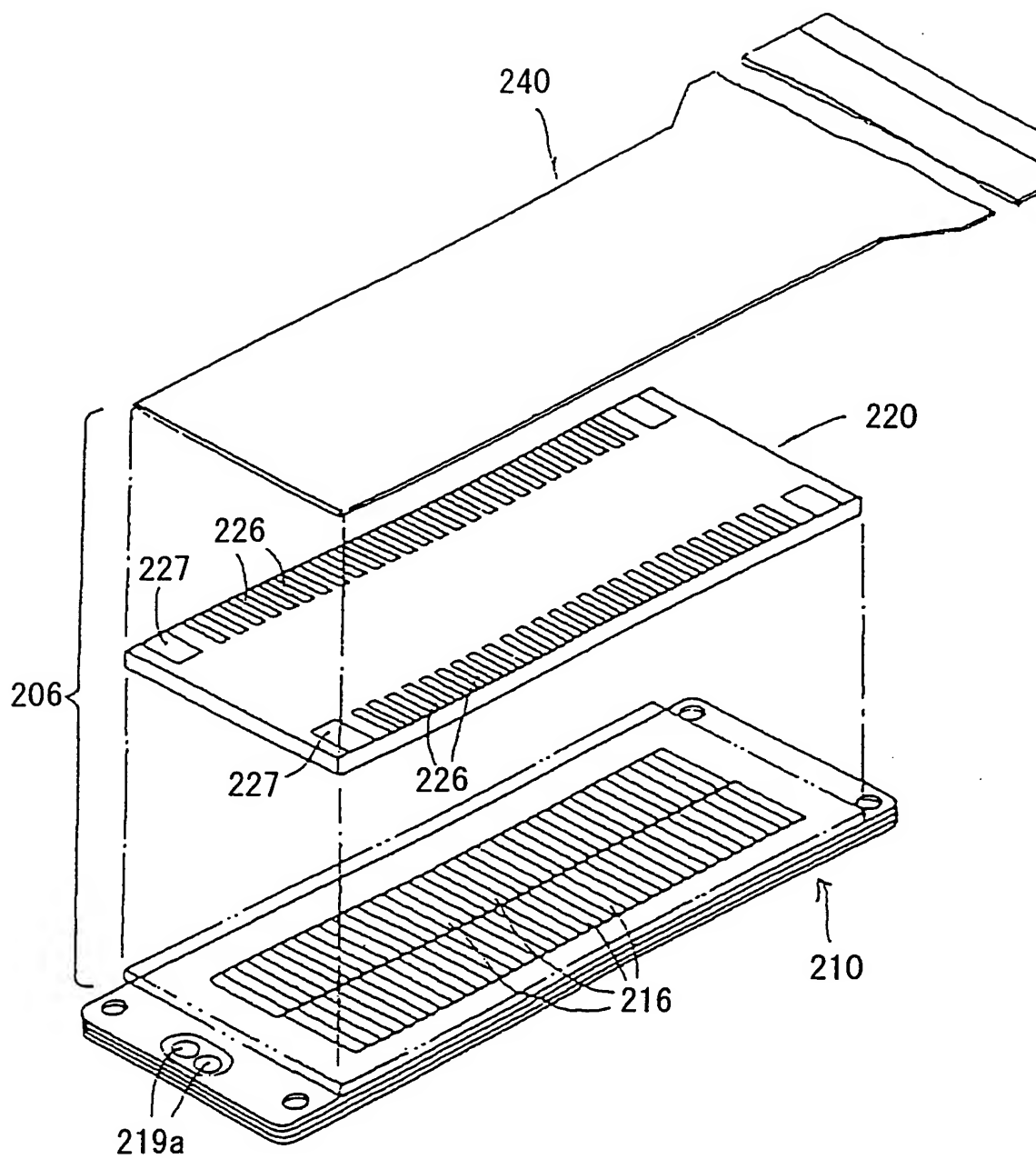


FIG.26

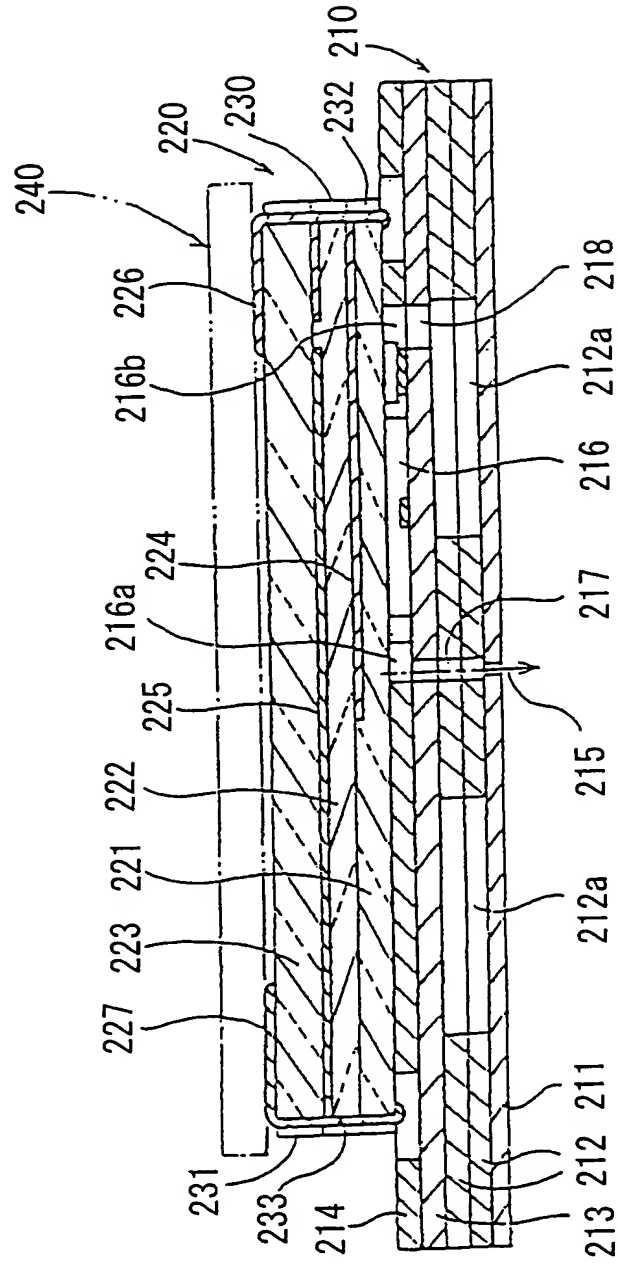


FIG.27

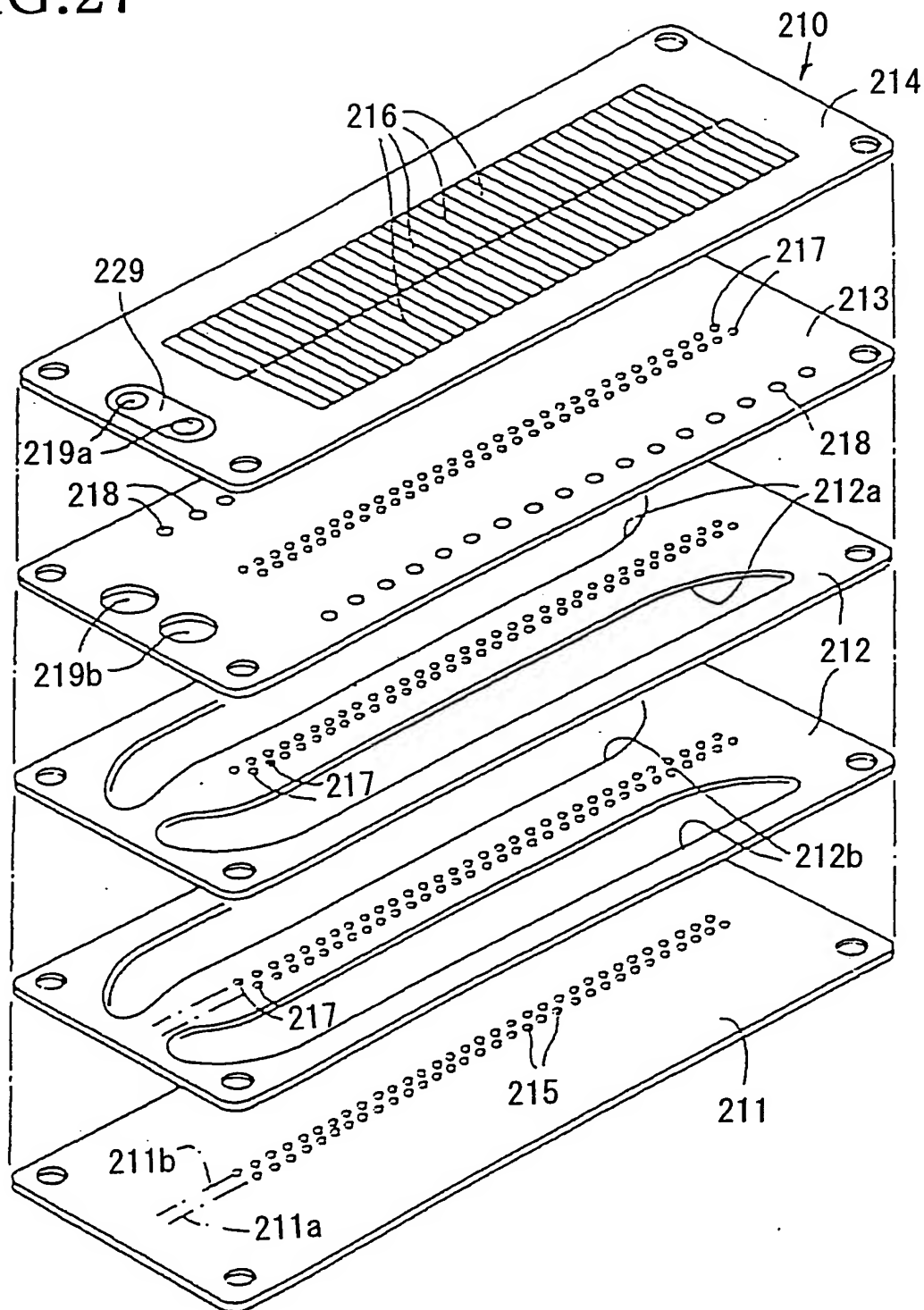


FIG.28

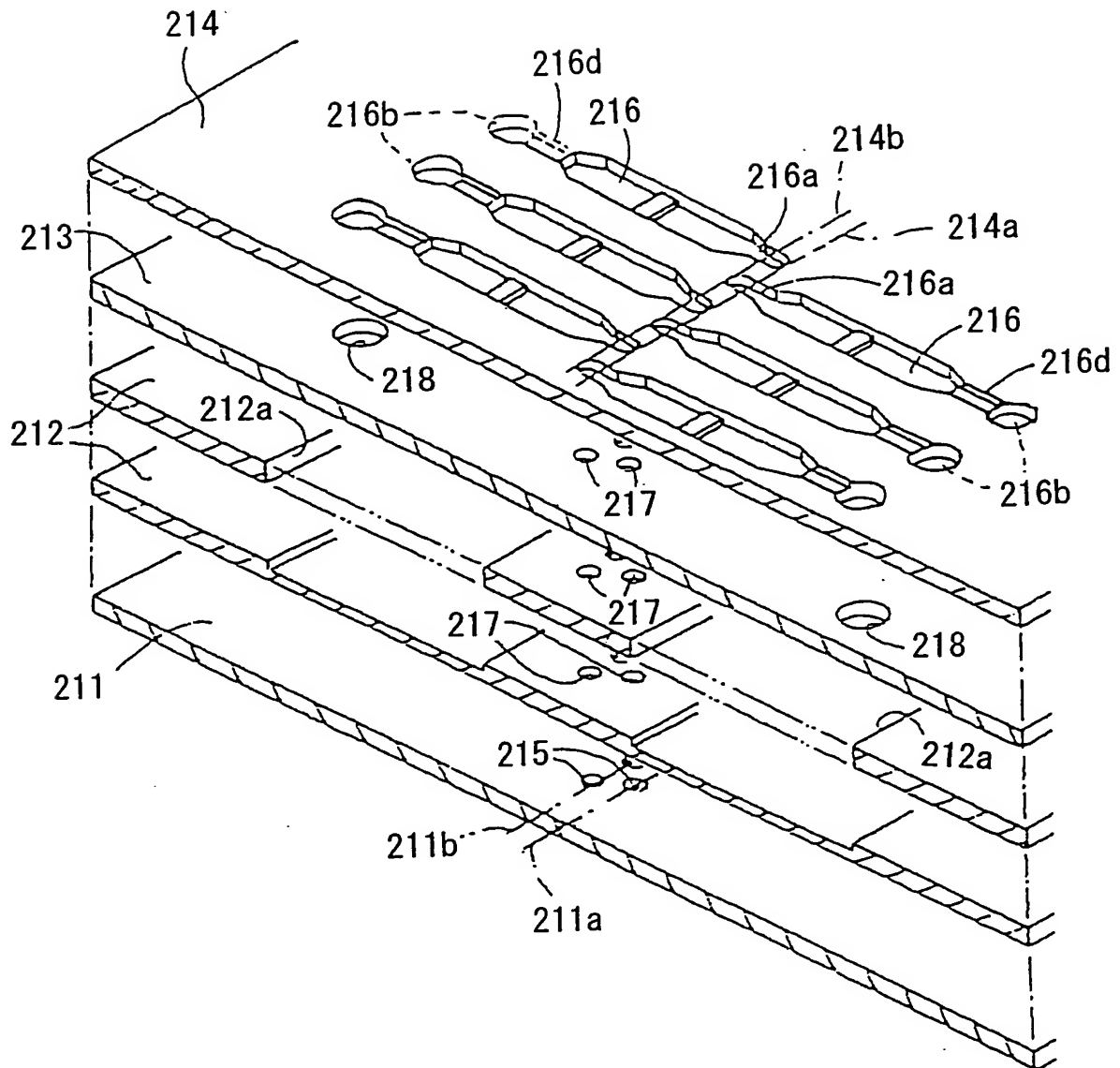
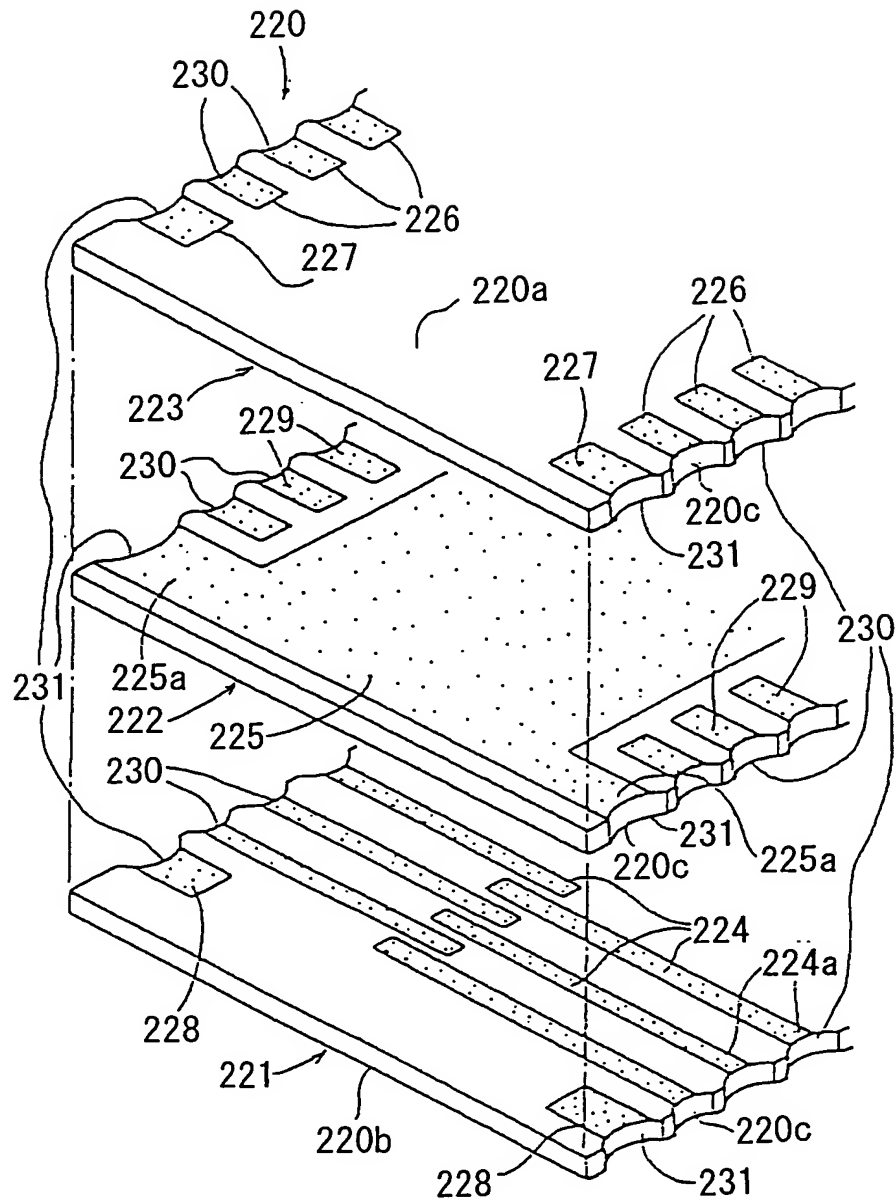


FIG. 29



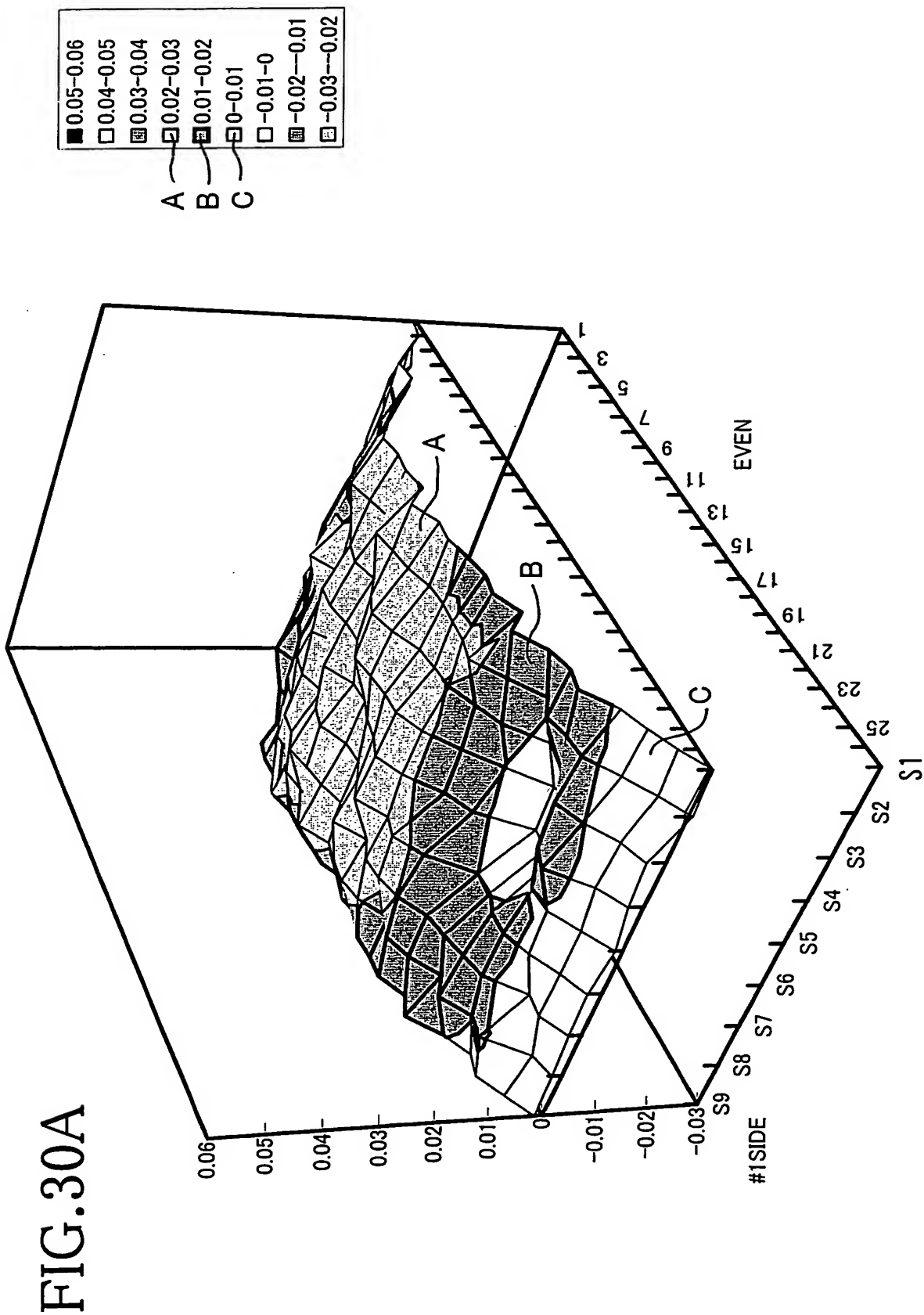
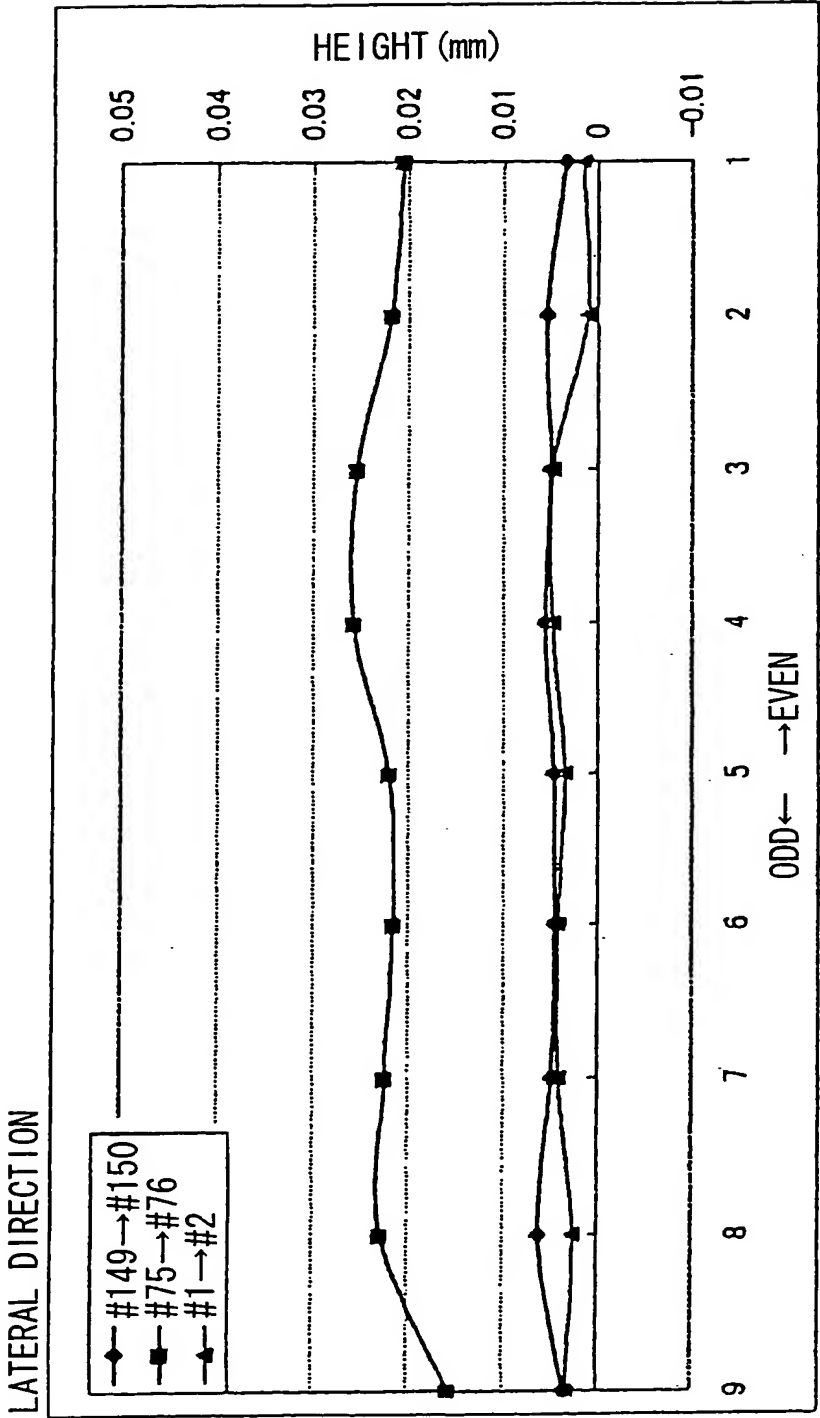


FIG. 31A



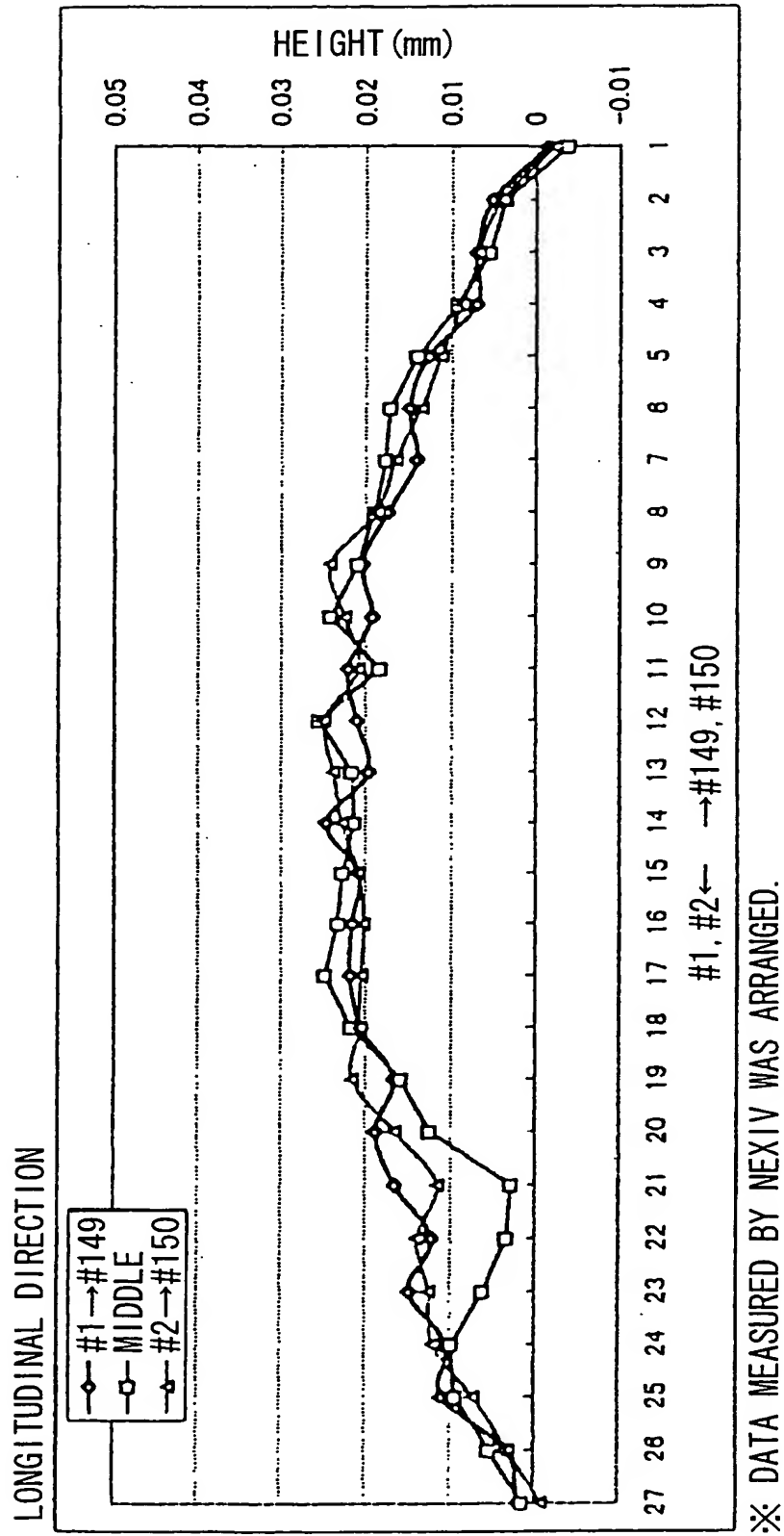
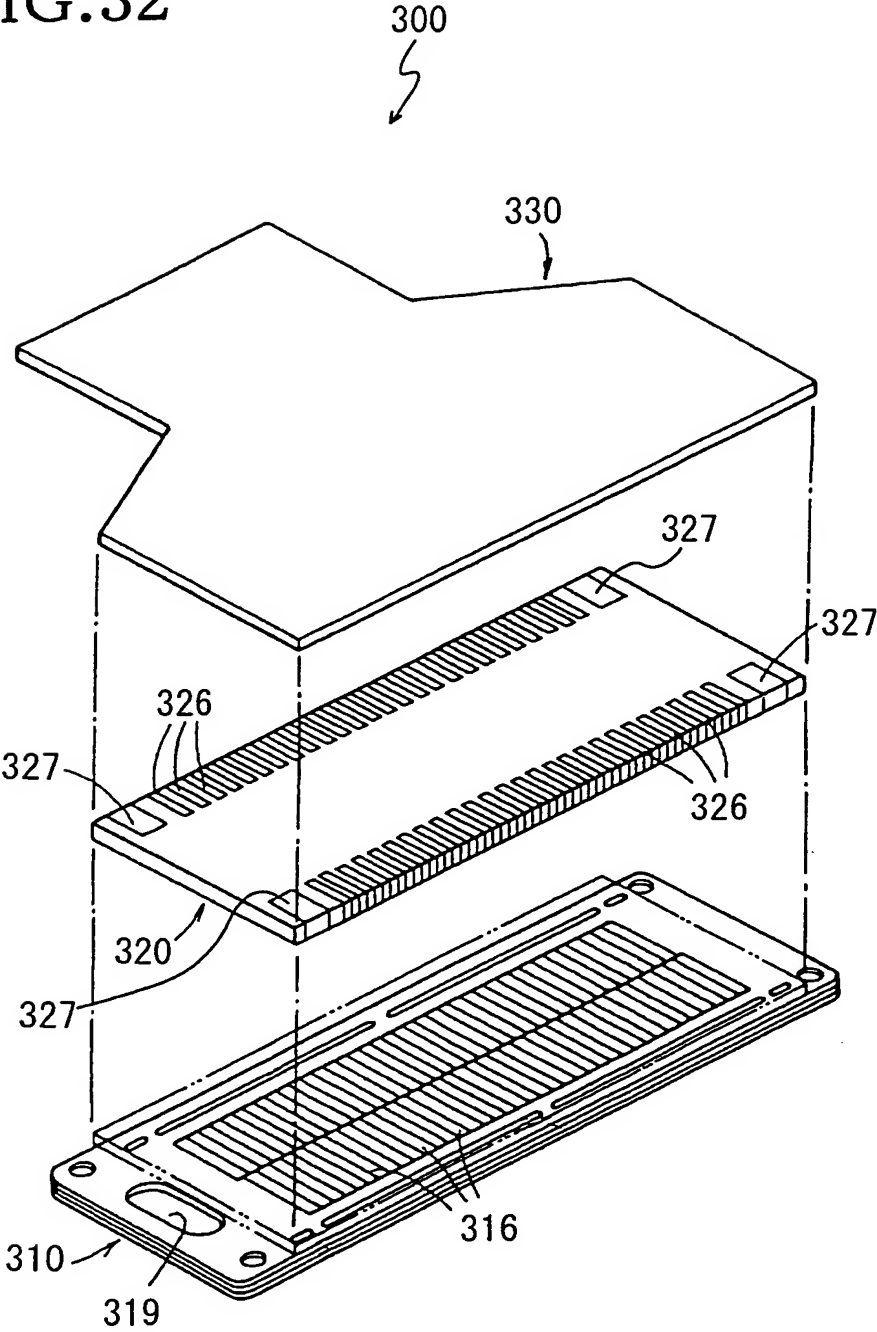


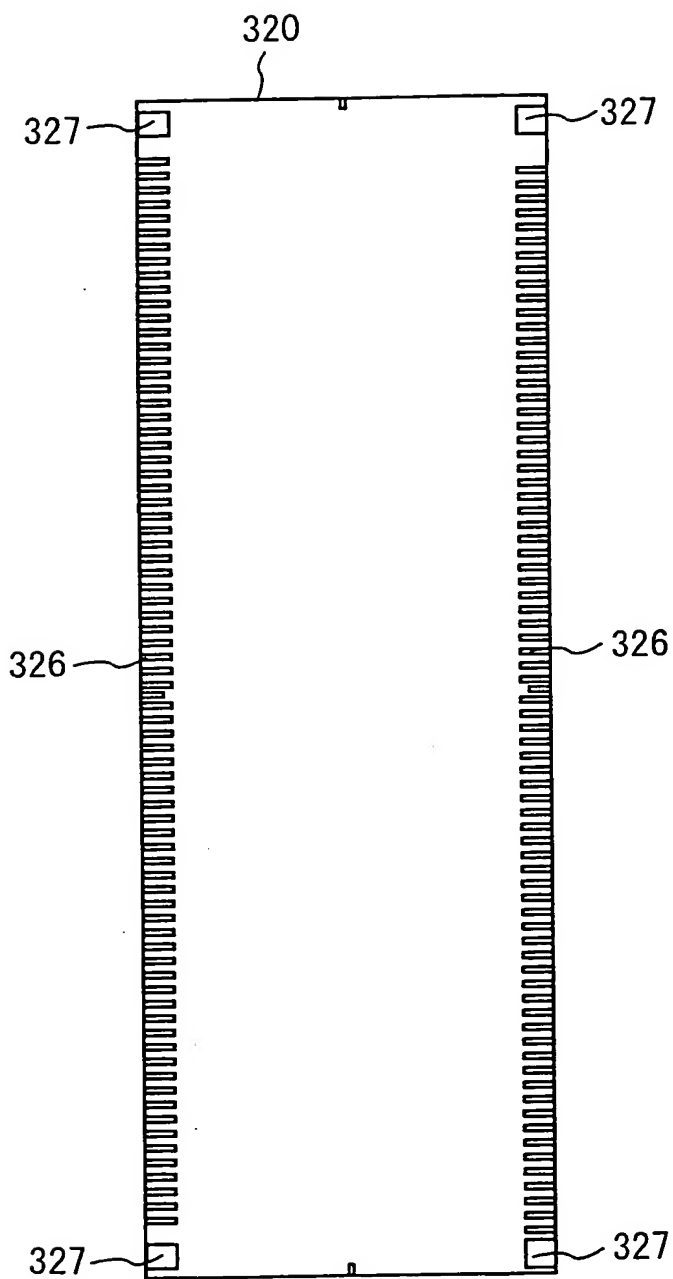


FIG.32



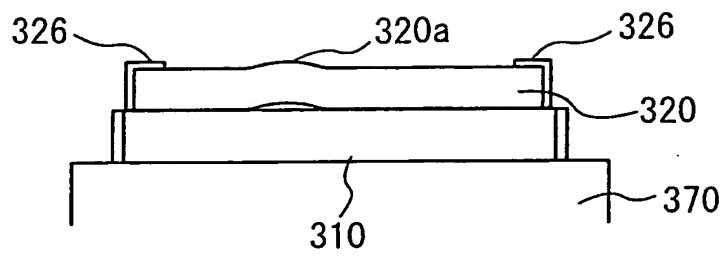
RELATED ART

FIG.33



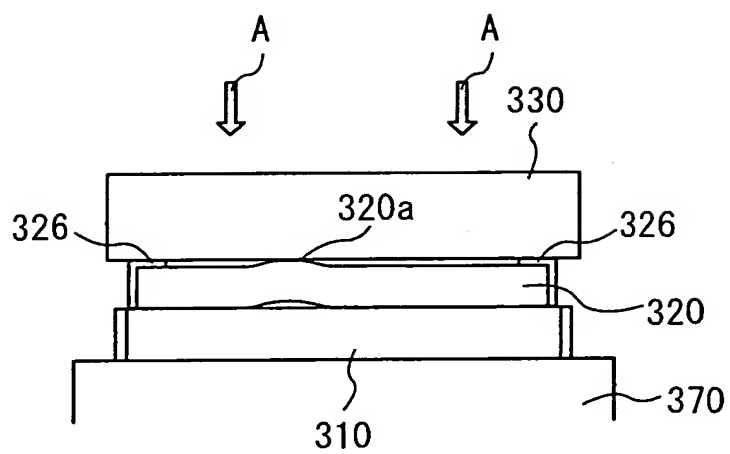
RELATED ART

FIG.34



RELATED ART

FIG.35



RELATED ART